INDEX FOR VOLUME 42, NOS. 1–6

ADAMS, JAMES R. A parasitic copepod (*Salmincola falculata*) attached to a fish heart 296
ALICATA, JOSEPH E. Observations on the possibility of developing a strain of *Trichinella spiralis* resistant to radiation 656
ALLEN, J. A. *Myocheres inflata* a new species of parasitic copepod from the Bahamas 60
Allocreadioids, from Red Sea fish 523
ALLRED, DORALD M. Life history of the tick *Dermacentor parumapertus* in Utah 516
ALTMANN, STUART A. (see Wykoff and Altmann) 504
American Society of Parasitologists:
Dates for mailing numbers of Volume 41 (1955) 95
Minutes, Business Meeting 214
Minutes, Council Meeting 208
Preliminary Announcement of the 1956 meeting 95
American Society of Parasitologists, history of 461
ANASTOS, GEORGE The occurrence of an *Ornithodoros* tick in Maryland 146
ANASTOS, GEORGE Two new species of ticks from Soembawa Island, Indonesia (Acarina: Ixodidae) 306
Ancylostoma caninum (Nematoda), comparative larval morphology of 363
Ancylostoma caninum (Nematoda), effects of extracts of on coagulation of dog's blood .. 26
Ancylostoma caninum (Nematoda), proteolytic activity in extracts of esophagus of 21
ANDERSON, EVERETT Electron microscope observations of *Trypanosoma equiperdum* 11
Argulidae (Crustacea), on amphibians 172
Argulus canadensis (Crustacea), on *Alosa sapidissima* in the Connecticut River 315
ARTHUR, DON R. The *Ixodes* ticks of Chiroptera (Ixodoidea, Ixodidae) 180
Ascaridia galli (Nematoda), egg shell of and larval infectivity 122
Ascaris lumbricoides (Nematoda), comparative larval morphology of 363
Ascaris lumbricoides (Nematoda), treatment of eggs of 504
Ascaris lumbricoides var. *suum* (Nematoda), study of eggs of with electron microscope .. 97
Ascaris suum (Nematoda), egg production in 587
Ascocotyle leighi (Trematoda), new species from *Mollienesia latipinna* 540
ATCHLEY, F. O. Current status of intestinal parasitism of man in eastern Kentucky 505
Australorbis glabratus (Mollusca), location of on dry natural habitats 81

BABERO, BERT B. (see Rausch, Babero, Rausch and Schiller) 259
BABERO, BERT B. (see Thomas and Babero) 500, 659
BARGAI, URI (see Kagan and Bargai) 237
BEAMS, H. W. (see Anderson, Saxe and Beams) 11
BECKER, ELERY R. Naturally occurring *Plasmodium* and *Haemoproteus* infection in the common pigeon 474
BENT, CLARENCE F. (see Schwabe, Meier and Bent) 651
BERRIOS, LUIS A. (see Riggin and Berrios) 10
BLANKEMEYER, VIRGINIA G. (see Farr and Blankemeyer) 320
BOYD, ELIZABETH M. Metazoan parasites of the blue jay, *Cyanocitta cristata* L. 332
BRAVO-HOLLIS, MARGARITA Trematodes of marine fishes of Mexican waters. IX. Four gasterostomes from the Pacific Coast 536
BRAY, R. S. Studies on malaria in chimpanzees. I. The erythrocytic forms of *Plasmodium reichenowi* 588
BRENER, Z. (see Pellegrino and Brener) 564
BRENNAN, JAMES M. *Neoschöngastia moucheti*, n. sp. and *N. brennani* Crossley and Loomis from Africa (Acarina: Trombiculidae) 650
BUCHANAN, G. D. Occurrence of the cestode *Mathevotaenia surinamensis* (Cohn, 1902) Spasskii, 1951 in a North American armadillo 34
BURTON, PAUL R. Morphology of *Ascocotyle leighi*, n. sp. (Heterophyidae), an avian trematode with metacercaria restricted to the conus arteriosus of the fish *Mollienesis latipinna* Le Sueur 540

CABLE, R. M. A dioecious species of *Gyrocoelia* (Cestoda: Acoleidae) from the naped plover 510
CAMPBELL, W. C. The fringed tapeworm in Wisconsin 530
CAVANAUGH, D. J. (see Eyles, Coleman and Cavanaugh) 408
Centrorhynchus milvus (Acanthocephala), new species from Egyptian kite 39
Ceratophyllus coahuilensis (Insecta), new species from swallow nests 73
Cercaria patialensis (Trematoda), in Ceylon 245

INDEX FOR VOLUME 42, NOS. 1–6

ADAMS, JAMES R. A parasitic copepod (*Salmincola falculata*) attached to a fish heart 296
ALICATA, JOSEPH E. Observations on the possibility of developing a strain of *Trichinella spiralis* resistant to radiation 656
ALLEN, J. A. *Myocheres inflata* a new species of parasitic copepod from the Bahamas 60
Allocreadioids, from Red Sea fish 523
ALLRED, DORALD M. Life history of the tick *Dermacentor parumapertus* in Utah 516
ALTMANN, STUART A. (see Wykoff and Altmann) 504
American Society of Parasitologists:
Dates for mailing numbers of Volume 41 (1955) 95
Minutes, Business Meeting 214
Minutes, Council Meeting 208
Preliminary Announcement of the 1956 meeting 95
American Society of Parasitologists, history of 461
ANASTOS, GEORGE The occurrence of an *Ornithodoros* tick in Maryland 146
ANASTOS, GEORGE Two new species of ticks from Soembawa Island, Indonesia (Acarina: Ixodidae) 306
Ancylostoma caninum (Nematoda), comparative larval morphology of 363
Ancylostoma caninum (Nematoda), effects of extracts of on coagulation of dog's blood .. 26
Ancylostoma caninum (Nematoda), proteolytic activity in extracts of esophagus of 21
ANDERSON, EVERETT Electron microscope observations of *Trypanosoma equiperdum* 11
Argulidae (Crustacea), on amphibians 172
Argulus canadensis (Crustacea), on *Alosa sapidissima* in the Connecticut River 315
ARTHUR, DON R. The *Ixodes* ticks of Chiroptera (Ixodoidea, Ixodidae) 180
Ascaridia galli (Nematoda), egg shell of and larval infectivity 122
Ascaris lumbricoides (Nematoda), comparative larval morphology of 363
Ascaris lumbricoides (Nematoda), treatment of eggs of 504
Ascaris lumbricoides var. *suum* (Nematoda), study of eggs of with electron microscope .. 97
Ascaris suum (Nematoda), egg production in 587
Ascocotyle leighi (Trematoda), new species from *Mollienesia latipinna* 540
ATCHLEY, F. O. Current status of intestinal parasitism of man in eastern Kentucky 505
Australorbis glabratus (Mollusca), location of on dry natural habitats 81

BABERO, BERT B. (see Rausch, Babero, Rausch and Schiller) 259
BABERO, BERT B. (see Thomas and Babero) 500, 659
BARGAI, URI (see Kagan and Bargai) 237
BEAMS, H. W. (see Anderson, Saxe and Beams) 11
BECKER, ELERY R. Naturally occurring *Plasmodium* and *Haemoproteus* infection in the common pigeon 474
BENT, CLARENCE F. (see Schwabe, Meier and Bent) 651
BERRIOS, LUIS A. (see Riggin and Berrios) 10
BLANKEMEYER, VIRGINIA G. (see Farr and Blankemeyer) 320
BOYD, ELIZABETH M. Metazoan parasites of the blue jay, *Cyanocitta cristata* L. 332
BRAVO-HOLLIS, MARGARITA Trematodes of marine fishes of Mexican waters. IX. Four gasterostomes from the Pacific Coast 536
BRAY, R. S. Studies on malaria in chimpanzees. I. The erythrocytic forms of *Plasmodium reichenowi* 588
BRENER, Z. (see Pellegrino and Brener) 564
BRENNAN, JAMES M. *Neoschöngastia moucheti*, n. sp. and *N. brennani* Crossley and Loomis from Africa (Acarina: Trombiculidae) 650
BUCHANAN, G. D. Occurrence of the cestode *Mathevotaenia surinamensis* (Cohn, 1902) Spasskii, 1951 in a North American armadillo 34
BURTON, PAUL R. Morphology of *Ascocotyle leighi*, n. sp. (Heterophyidae), an avian trematode with metacercaria restricted to the conus arteriosus of the fish *Mollienesis latipinna* Le Sueur 540

CABLE, R. M. A dioecious species of *Gyrocoelia* (Cestoda: Acoleidae) from the naped plover 510
CAMPBELL, W. C. The fringed tapeworm in Wisconsin 530
CAVANAUGH, D. J. (see Eyles, Coleman and Cavanaugh) 408
Centrorhynchus milvus (Acanthocephala), new species from Egyptian kite 39
Ceratophyllus coahuilensis (Insecta), new species from swallow nests 73
Cercaria patialensis (Trematoda), in Ceylon 245

Cercariae, three new from *Amnicola pilsbryi* 86
CHANDLER, ASA C. (see Kuntz and Chandler) 445, 613
CHANG, PATRICIA C. H. The ultrastructure of *Leishmania donovani* 126
CHATTERJI, P. N. Studies on some diplostome trematodes of the sub-family Crassiphialini Dubois, 1936 147
CHOMANAN, TAVIL (see Madsen, Disamarn and Chomanan) 552
CIORDIA, HONORICO (see Jones and Ciordia) 207
CLARK, DAVID T. Identification of beta ZnS in the intestinal cells of *Strongylus* spp. 77
CLARK, DAVID T. (see Levine and Clark) 658
CLARK, DAVID T. (see Levine, Clark and Hanson) 496
CLIFFORD, CARLETON M. (see Anastos and Clifford) 146
Coccidia, avian, effect of Nicarbamazin on immunity to 593
Coccidiosis, human, in South Carolina 491
Coelomomyces tasmaniensis (Fungi), new species from Tasmanian mosquito larvae 53
COIL, WILLIAM H. Two new hymenolepidid cestodes from Mexican birds with observations on *Hymenolepis crocethiae* Webster, 1947 584
COKER, COIT M. Effects of cortisone on cellular inflammation in the musculature of mice given one infection with *Trichinella spiralis* 479
COLEMAN, NELL (see Eyles, Coleman and Cavanaugh) 408
CORT, W. W. (see Hendricks and Cort) 557
CORT, W. W. (see Mathies and Cort) 429
CRAM, ELOISE B. Stepping stones in the history of the American Society of Parasitologists 461
Crassiphiala bulboglossa (Trematoda), life cycle of 435
Crassiphialini (Trematoda), studies on some 147
CRITES, JOHN L. A redescription of *Cruzia americana*, a nematode parasitic in the opossum, *Didelphis marsupialis virginiana* 68
CRUSZ, H. The progenetic trematode *Cercaria patialensis* Soparkar in Ceylon 245
Cruzia americana (Nematoda), redescription of 68
CUCKLER, ASHTON C. The effect of Nicarbamazin on the development of immunity to avian coccidia 593
Culicoides (Insecta), in the Bermuda Islands 297, 300
Culicoides bermudensis (Insecta), new species 297
Cuterebra (Insecta), larva, in cat epidural space 432
Cynodiplostomum namrui (Trematoda), new species from Egypt 445
Cysticercus fasciolaris (Cestoda), electrophoretic study of sera of rats infected with 109

DAUGHERTY, JACK W. The effect of host castration and fasting on the rate of glycogenesis in *Hymenolepis diminuta* 17
DAVIS, GORDON E. An atypical *Ornithodoros hermsi* from Utah (Ixodoidea, Argasidae) 293
DAVIS, WILIAM S. American shad, *Alosa sapidissima*, parasitized by *Argulus canadensis* in the Connecticut river 315
Dendritobilharzia sp. (Trematoda), cause of encephalitis in swan 496
Dermacentor parumapertus (Acarina), attached to man 527
Dermacentor parumapertus (Acarina), life history of in Utah 516
Dermestidae (Insecta), larva in digestive tract of a woman 172
DIMINNO, ROSEMARIE L. (see Boyd, Diminno and Nesslinger) 332
Dioctophyma renale (Nematoda), in Louisiana, and size of infertile eggs of 533
Dirofilaria immitis (Nematoda), dog filariid other than in United States 246
DISAMARN, RAMPUNG (see Madsen, Disamarn and Chomanan) 552
DOUVRES, FRANK W. Morphogenesis of the parasitic stages of *Ostertagia ostertagi*, a nematode parasite in cattle 626
Dracontiasis, in New England dog 651
DUNAGAN, T. T. *Hymenolepis sphenomorphus* from *Sorex cinereus* in Alaska 657

EADS, RICHARD B. Ectoparasites from swallow nests, with the description of a new ceratophyllid flea 73
Echinococcus (Cestoda), in voles, nomenclature of 500
Echinococcus (Cestoda), infectivity of eggs of from Alaska *Alopex lagopus* 659
Ectoparasites, from swallow nests 73
ETGES, FRANK J. Notes on the use of Technicon mounting medium for in toto preparations 30
ETGES, FRANK J. Three new cercariae from *Amnicola pilsbryi* Walker, 1906, with some notes on their life histories 86
EVANS, FREDERICK R. *Tritrichomonas muris* in desert rodents of Utah 495
EVELETH, D. F. (see Shumard and Eveleth) 150

EYLES, DON E. Preservation of *Toxoplasma gondii* by freezing 408
EYLES, DON E. Relationship of size of inoculum to time to death in mice infected with *Toxoplasma gondii* 272

FARR, MARION M. *Trichobilharzia brantae* n. sp. (Trematoda: Schistosomatidae) from the Canada goose (*Branta canadensis* L.) 320
FAUST, ERNEST CARROLL (see Schacher and Faust) 533
Filariid, dog, other than *Dirofilaria immitis* in the United States 246
FLYNN, ROBERT J. Nidification of a mite (*Psorergates simplex* Tyrrell, 1883: Myobiidae) in the skin of mice 49
FOX, IRVING. *Hoplopleura oenomydis* Ferris in Puerto Rico 33
FRANDSEN, JOHN C. *Ophiotaenia filaroides* La Rue, 1909 (Cestoda: Proteocephalidae) reported from Utah salamanders 413
FRICK, LYMAN P. Efficacy of Abbott's insect repellent cream (E4856) in preventing *Schistosoma japonicum* infections in mice 528

Gasterostomes, from Pacific Coast 536
Giardia (Protozoa), habitat of in kitten 286
GOIN, COLEMAN J. Parasitic copepods (Argulidae) on amphibians 172
Gyliauchenids, from Red Sea fish 523
Gyrocoelia pagollae (Cestoda), provisional new dioecious species from naped plover 510

Haemaphysalis bequaerti (Acarina), new species from hyrax 156
Haemaphysalis cooleyi (Acarina), from hyrax 156
Haemaphysalis orientalis (Acarina), from hyrax 156
Haemoproteus (Protozoa), naturally occurring in pigeon 474
Halisidota argentata (Insecta), causing tissue damage in salmonids 544
HALL, J. E. An apparent case of human infection with the whipworm of dogs, *Trichuris vulpis* (Frowlich, 1789) 197
Hannemania hegeneri (Acarina), new species 176
HANSEN, M. F. Importance of the egg shell of *Ascaridia galli* to the infectivity of its larva 122
HANSON, HAROLD C. A three-year survey of *Ornithofilaria* sp. microfilariae in Canada geese 543
HANSON, LYLE E. (see Levine, Clark and Hanson) 496
HARDENBROOK, HARVEY (see Levine, Watrach, Kantor and Hardenbrook) 553
Helminths, from St. Lawrence Island, Alaska, mammals 500
Helminths, of Oregon urodeles 25
HEMPHILL, E. C. (see Atchley, Hemphill and Hunt) 505
HENDRICKS, J. A. A study of the *in vitro* actions of antiserums on the cercariae of certain bird schistosomes 557
HERMAN, CARLTON M. (see Wehr and Herman) 42
Heterophyes (Trematoda), new hosts for in Egypt 287
Heterophyes aequalis (Trematoda), embryonic development of 613
Heterophyids, of Egyptian mammals 445, 613
Hexostoma (Trematoda), notes on 316
Hexostoma euthynni (Trematoda), redescription of 316
HILL, CHARLES H. *Trichinella spiralis* from the urinary bladder of a pig 434
HITCHCOCK, DOROTHY J. Habitat of *Giardia* in the kitten 286
HOFFMAN, GLENN L. The life cycle of *Crassiphiala bulboglossa* (Trematoda: Strigeida). Development of the metacercaria and cysts, and effect on the fish hosts 435
HOLLANDER, WILLARD F. (see Becker, Hollander and Pattillo) 474
HOLLIMAN, RHODES B. (see Leigh and Holliman) 400
HOOGSTRAAL, HARRY Notes on African *Haemaphysalis* ticks. III. The hyrax parasites, *H. bequaerti* sp. nov., *H. orientalis* N. and W., 1915 (new combination), and *H. cooleyi* Bedford, 1929 (Ixodoidea, Ixodidae) 156
Hookworms, stimulation of acquired immunity to in dogs 501
Hoplopleura oenomydis (Insecta), in Puerto Rico 33
HUFF, CLAY G. Exoerythrocytic stages of *Plasmodium nucleophilum* 612
HUFF, CLAY G. Parasitism and Parasitology 1
HULL, WILLIAM B. The nymphal stages of *Pneumonyssus simicola* Banks, 1901 (Acarina: Halarachnidae) 653
HUNT, D. W. (see Atchley, Hemphill and Hunt) 505
Hydatigera taeniaeformis (Cestoda), chromosomes of 207
HYLAND, K. E., JR. A new species of chigger mite, *Hannemania hegeneri* (Acarina: Trombiculidae) 176

Hymenolepidid cestodes, two new from Mexican birds 584
Hymenolepis citelli (Cestoda), life history of 485
Hymenolepis crocethiae, observations on 584
Hymenolepis diminuta (Cestoda), glycogenesis in 17
Hymenolepis sphenomorphus (Cestoda), from Alaska *Sorex cinereus* 657

In toto preparations, Technicon mounting medium for 30
Intestinal parasites, in Georgia mental hospital 553
Intestinal parasites, in Kathmandu, Nepal 94
Ischyropoda furmani (Acarina), new species from Utah 311
Ixodes (Acarina), new species of from Central and South America 636
Ixodes (Acarina), of Chiroptera 180

JAROSLOW, BERNARD N. (see Flynn and Jaroslow) 49
JEFFERY, GEOFFREY M. Human coccidiosis in South Carolina 491
JEFFERY, GEOFFREY M. Intestinal parasites in a Georgia mental hospital 553
JONES, ARTHUR W. The chromosomes of *Hydatigera taeniaeformis* and *Taenia pisiformis* 207
JONES, MYRNA F. (see Weinstein and Jones) 215
JUDD, W. W. A carpet beetle larva (Coleoptera: Dermestidae) from the digestive tract of a woman 172
KAGAN, IRVING G. Studies on the serology of trichinosis with hemagglutination, agar diffusion tests and precipitin ring tests 237
KANTOR, SIDNEY (see Levine, Watrach, Kantor and Hardenbrook) 553
KEEGAN, HUGH L. *Ischyropoda furmani* n. sp., a new ectoparasitic mite from Utah 311
KELLEY, GEORGE W., JR. The daily egg production of *Ascaris suum* and the inability of low levels of Aureomycin to affect egg production and embryonation 587
KOHLS, GLEN M. Eight new species of *Ixodes* from Central and South America (Acarina: Ixodidae) 636
KRAUT, NATHAN An electrophoretic study of sera from rats artificially infected with and immunized against the larval cestode *Cysticercus fasciolaris* 109
KUNTZ, ROBERT E. Studies on Egyptian trematodes with special reference to the heterophyids of mammals. I. Adult flukes with descriptions of *Phagicola longicollis* n. sp., *Cynodiplostomum namrui* n. sp. and a *Stephanoprora* from cats 445
KUNTZ, ROBERT E. Studies on Egyptian trematodes with special reference to the heterophyids of mammals. II. Embryonic development of *Heterophyes aequalis* Looss 613

LAIRD, MARSHALL A new species of *Coelomomyces* (Fungi) from Tasmanian mosquito larvae 53
Lambs, method for raising "Parasite free" 150
LANDERS, EARL J. (see Stunkard and Landers) 432
Larva migrans, visceral 349, 363
LEHMANN, DONALD L. Some helminths of Oregon urodeles 25
LEIGH, W. HENRY The life history of *Paramacroderoides echinus* Venard, 1941, a trematode of the Florida gar, *Lepisosteus platyrhincus* 400
Leishmania donovani (Protozoa), ultrastructure of 126
LESSER, ELLIOT Parasitism in Korea 515
LEVINE, NORMAN D. A case of bovine trypanosomiasis due to *Trypanosoma theileri* in Illinois 553
LEVINE, NORMAN D. Correction factors for fecal consistency in making nematode egg counts of sheep feces 658
LEVINE, NORMAN D. Encephalitis in a swan due to *Dentritobilharzia* sp. (Trematoda: Schistosomatidae) 496
Life history of:
Crassiphiala bulboglossa (Trematoda) 435
Dermacentor parumapertus (Acarina) 516
Hymenolepis citelli (Cestoda) 485
Paramacroderoides echinus (Trematoda) 400
LIN, S. S. (see Frick, Lin and Williams) 528
Lophortofilaria californiensis (Nematoda), new genus and species from California quail 42

MADSEN, DAVID E. Microfilaria in elephants 552
MALANGA, CHRISTINA M. (see Cuckler and Malanga) 593
Malaria, in chimpanzees 588
MALEWITZ, THOMAS D. (see Hitchcock and Malewitz) 286

MARKELL, EDWARD K. A comparison of three staining techniques for protozoan parasites as applied to PVA-preserved fecal specimens 478
MARKELL, EDWARD K. *Probolitrema mexicana*, n. sp., an anaporrhutine trematode from elasmobranchs of Baja California 56
Mathevotaenia surinamensis (Cestoda), in North American armadillo 34
MATHIES, A. W., JR. Larval trematode infections in snails of different sizes 429
MAVROS, ANTHONY J. (see Davis and Mavros) 293
MEIER, HANS (see Schwabe, Meier and Bent) 651
Mesocestoides corti (Cestoda), development and morphology of oncosphere of 414
Metazoan parasites, of *Cyanocitta cristata* L. 332
Microfilaria (Nematoda), in elephants 552
MILLEMANN, RAYMOND E. Notes on the genus *Hexostom* (Monogenea: Hexostomatidae), with a redescription of *H. euthynni* Meserve, 1938 316
MILLER, ALBERT The biting louse *Pitrufquenia coypus* Marelli on nutria in Louisiana 583
MYERS, ROSE MARIE E. (see Cable and Myers) 510
Myocheres inflata (Copepoda), new species from the Bahamas 60

NAGATY, H. F. Trematodes of fishes from the Red Sea. Part 6. On five distomes including one new genus and four new species 151
NAGATY, H. F. Trematodes of fishes from the Red Sea. Part 7. On two gyliauchenids and three allocreadioids, including four new species 523
Necator americanus (Nematoda), comparative larval morphology of 363
Nematode egg counts, of sheep feces 658
Neoschöngastia brennani (Acarina), from Africa 650
Neoschöngastia mouchetia (Acarina), new species from Africa 650
NESSLINGER, CARLITA (see Boyd, Diminno and Nesslinger) 332
New genera (indicated *), new species and new subspecies:
Acanthatrium jonesi Sogandares-Bernal 202
Acanthatrium macyi Sogandares-Bernal 202
Aponomma kraneveldi Anastos 306
Aponomma soembawensis Anastos 307
Ascocotyle leighi Burton 540
Bianium tetrodontis Nagaty 524
Bucephalus heterotentaculatus Bravo-Hollis and Sogandares-Bernal 536
* *Cainocreadoides serrani* Nagaty 525
Centrorhynchus milvus Ward 39
Ceratophyllus coahuilensis Eads 74
Cercaria amnicolensis Etges 87
Cercaria parapleurolophocercoides Etges 88
Cercaria wesenberg-lundi Etges 89
Coelomomyces tasmaniensis Laird 55
Culicoides bermudensis Williams 298
Cynodiplostomum namrui Kuntz and Chandler 454
Gyliauchen volubilis Nagaty 523
Gyrocoelia pagollae Cable and Myers 511
Haemaphysalis bequaerti Hoogstraal 156
Hannemania hegeneri Hyland 177
Helicometra boseli Nagaty 525
Hymenolepis chiapaensis Coil 584
Hymenolepis collariella Coil 585
Hysterolecitha teuthis Nagaty 152
Ischyropoda furmani Keegan 311
Ixodes andinus Kohls 646
Ixodes chilensis Kohls 648
Ixodes guatemalensis Kohls 636
Ixodes nectomys Kohls 646
Ixodes pomerantzi Kohls 639
Ixodes simplex africanus Arthur 193
Ixodes spiculae Arthur 185
Ixodes tapirus Kohls 642
Ixodes tecpanensis Kohls 636
Ixodes tropicalis Kohls 643
**Lophortofilaria californiensis* Wehr and Herman 43
**Megacreadium tetrodontis* Nagatay 151

Myocheres inflata Allen 60
Neoschöngastia moucheti Brennan 650
Phagicola byrdi Robinson 327
Phagicola longicollis Kuntz and Chandler 451
Phagicola macrostomus Robinson 326
Phyllodistomum leilae Nagaty 152
Probolitrema mexicana Markell 56
Prosthodendrium thomasi Sogandares-Bernal 201
Shunsennia biplumulosa Teller 173
Trichobilharzia brantae Farr and Blankemeyer 321
Tubulovesicula serrani Nagaty 153
Urinatrema aspinosum Schiller 531
NEWTON, WALTER L. The occurrence of a dog filariid other than *Dirofilaria immitis* in the United States 246
NICHOLS, ROBERT L. The etiology of visceral larva migrans. I. Diagnostic morphology of infective second-stage *Toxocara* larvae 349
NICHOLS, ROBERT L. The etiology of visceral larva migrans. II. Comparative larval morphology of *Ascaris lumbricoides, Necator americanus, Strongyloides stercoralis* and *Ancylostoma caninum* 363
Nippostrongylus muris (Nematoda), *in vitro* cultivation of to adult stage 215
NOBLE, GLENN A. Cold culture 581
NORMAN, L. (see Sadun and Norman) 608
OGREN, LARRY H. (see Goin and Ogren) 172
OGREN, ROBERT E. Development and morphology of the oncosphere of *Mesocestoides corti*, a tapeworm of mammals 414
OLIVIER, LOUIS The location of the schistosome vectors, *Australorbis glabratus and Tropicorbis centimetralis*, on and in the soil on dry natural habitats 81
OLIVIER, LOUIS Observations on vectors of schistosomiasis mansnoi kept out of water in the laboratory. I. 137
OLIVIER, LOUIS Observations on vectors of schistosomiasis mansnoi kept out of water in the laboratory. II. 277
Ophiotaenia filaroides (Cestoda), from Utah salamanders 413
Ophiotaenia grandis (Cestoda) in Oklahoma 20
Ornithodoros hermsi (Acarina), atypical, from Utah 293
Ornithodoros kelleyi (Acarina), in Maryland 146
Ornithofilaria sp. (Nematoda), microfilariae, in Canada geese 543
Ostertagia ostertagi (Nematoda), Morphogenesis of parasitic stages of 626
Paramacroderoides echinus (Trematoda), life history of 400
Parasites, human intestinal, in southern Turkey 535
Parasitism, and parasitology 1
Parasitism, in Korea 515
Parasitism, intestinal, in man in eastern Kentucky 505
Parasitology, and parasitism 1
PATTILLO, WALTER H. (see Becker, Hollander and Pattillo) 474
Pelichnobothrium speciosum (Cestoda), plerocercoid larva of 31
PELLEGRINO, J. Method for isolating schistosome granulomas from mouse liver 564
Phagicola byrdi (Trematoda), new species from turkey vulture 327
Phagicola longicollis (Trematoda), new species from Egypt 445
Phagicola macrostomus (Trematoda), new species from turkey vulture 326
Pig, as host of *Schistosoma mansoni* in Puerto Rico 10
Pitrufquenia coypus (Insecta), on Louisiana nutria 583
Plasmodium (Protozoa), naturally occurring in pigeon 474
Plasmodium nucleophilum (Protozoa), exoerythrocytic stages of 612
Plasmodium reichenowi (Protozoa), erythrocytic stages of 588
Pneumonyssus simicola (Acarina), nymphal stages of 653
Probolitrema mexicana (Trematoda), new species from Baja California elasmobranchs 56
Protozoa, cold culture of 581
Protozoan parasites, staining techniques for 478
Psorergates simplex (Acarina), nidification of in skin of mice 49
RANDALL, BEVERLY H. (see Wells and Randall) 287
RAUSCH, R. V. (see Rausch, Babero, Rausch and Schiller) 259
RAUSCH, ROBERT Studies on the helminth fauna of Alaska. XXVII. The occurrence of larvae of *Trichinella spiralis* 259
RAUSCH, ROBERT (see Voge and Rausch) 547

RENDTORFF, ROBERT C. Treatment of a case of *Taenia saginata* infection with diphenhydramine 382
RIGGIN, G. T., JR. The pig as a host of *Schistosoma mansoni* in Puerto Rico 10
RISER, NATHAN W. Observations on the plerocercoid larva of *Pelichnibothrium speciosum* Monticelli 1889 31
ROBERTS, LARRY S. *Ophiotaenia grandis* La Rue (Cestoda: Proteocephalidae), in McCurtain County, Oklahoma 20
ROBINSON, EDWIN J., JR. Two flukes, *Phagicola macrostomus*, n. sp. and *Phagicola byrdi* n. sp., from the turkey vulture (Trematoda: Heterophyidae) 326
ROGERS, RODNEY A. A study of eggs of *Ascaris lumbricoides* var. *suum* with the electron microscope 97
ROSCOE, ERNEST J. A rabbit tick, *Dermacentor parumapertus*, attached to man 527
ROSCOE, ERNEST J. (see Allred and Roscoe) 516
SADUN, ELVIO H. The effect of single inocula, of varied size, on the resistance of hamsters to *Trichinella spiralis* 608
Salmincola falculata (Crustacea), attached to fish heart 296
SARMIENTO, LUZ *Troglostrongylus wilsoni* (Stough, 1953) n. comb. (Nematoda: Metastrongylidae) from the lungs of the bobcat, *Lynx rufus rufus* 45
SCHACHER, JOHN F. Occurrence of *Dioctophyma renale* in Louisiana, with remarks on the size of infertile eggs of this species 533
SCHILLER, EVERETT L. Studies on the helminth fauna of Alaska. XXIX. *Urinatrema aspinosum*, n. sp. (Trematoda: Zoogonidae) from the urinary bladder of the greenling *Hexagrammos superciliosus* (Pallas) 531
SCHILLER, EVERETT L. (see Rausch, Babero, Rausch and Schiller) 259
Schistosoma japonicum (Trematoda), repellent against 528
Schistosoma mansoni (Trematoda), in pig in Puerto Rico 10
Schistosoma mansoni (Trematoda), penetration of host skin by cercariae of 565
Schistosome granulomas, isolating from mouse liver 564
Schistosome vectors, location of on dry habitats 81
Schistosomes, bird, actions of antiserums an cercariae of 557
Schistosomiasis mansoni, observations on vectors of 137, 277
SCHWABE, CALVIN A case of dracontiasis in a New England dog 651
Shipleya inermis (Cestoda), observations on 547
SHUMARD, R. F. A practical method for raising lambs "parasite free" while allowing them to remain with their ewes 150
Shunsennia biplumulosa (Acarina), new species from Japan 173
SIMÕES BARBOSA, FREDERICO (see Olivier and Simões Barbosa) 277
SMITH, L. J. (see Kelley and Smith) 587
SOGANDARES-BERNAL, FRANKLIN Four trematodes from Korean bats with descriptions of three new species 200
SOGANDARES-BERNAL, FRANKLIN (see Bravo-Hollis and Sogandares-Bernal) 536
SONNENBERG, B. (see Hall and Sonnenberg) 197
Stephanoprora (Trematoda), from cats 445
STIREWALT, M. A. Penetration of host skin by cercariae of *Schistosoma mansoni*. I. Observed entry into skin of mouse, hamster, rat, monkey and man 565
STOUGH, B. D. (see Sarmiento and Stough) 45
Strongyloides stercoralis (Nematoda), comparative larval morphology of 363
Strongylus spp. (Nematoda), beta ZnS in intestinal cells of 77
STUNKARD, HORACE W. A *Cuterebra* larva (Diptera) from the epidural space of a cat 432
SVENSSON, RUTH Intestinal parasites in Kathmandu, Nepal 97

Taenia pisiformis (Cestoda), chromosomes of 207
Taenia saginata (Cestoda), treatment of with diphenhydramine 382
TELLER, LESLIE W., JR. *Shensennia biplumulosa*, a new species of chigger from Japan (Acarina: Trombiculidae) 173
TERHAAR, C. J. (see Hansen, Terhaar and Turner) 122
THOMAS, LYELL J. Observations on the infectivity of *Echinococcus* eggs obtained from foxes (*Alopex lagopus* Linn.) on St. Lawrence Island, Alaska 659
THOMAS, LYELL J. Some helminths of mammals from St. Lawrence Island, Alaska, with a discussion on the nomenclature of *Echinococcus* in voles 500
THORSON, RALPH E. The effect of extracts of the amphidial glands, excretory glands, and esophagus of adults of *Ancylostoma caninum* on the coagulation of dog's blood 26
THORSON, RALPH E. Proteolytic activity in extracts of the esophagus of adults of *Ancylostoma caninum* and the effect of immune serum on this activity 21

THORSON, RALPH E. The stimulation of acquired immunity in dogs by injections of extracts of the esophagus of adult hookworms 501
Thysanosoma actinoides (Cestoda), in Wisconsin 530
Ticks, new species of from Indonesia 306
TODD, A. C. (see Campbell and Todd) 530
Toxocara (Nematoda), diagnostic morphology of second stage larvae of 349
Toxoplasma gondii (Protozoa), preservation of by freezing 408
Toxoplasma gondii (Protozoa), size of inoculum and time to death in mice 272
Trematode infections, larval, in different sized snails 429
Trematodes, Egyptian, studies on 445, 613
Trematodes, from Korean bats 200
Trematodes, of Red Sea fishes 151, 523
Trichinella spiralis (Nematoda), cortisone in infection with 479
Trichinella spiralis (Nematoda), effect of single inocula on resistance to 608
Trichinella spiralis (Nematoda), from pig urinary bladder 434
Trichinella spiralis (Nematoda), in Alaskan mammals 259
Trichinella spiralis (Nematoda), possibility of radiation resistant strain of 656
Trichinosis, serology of 237
Trichobilharzia brantae (Trematoda), new species from *Branta canadensis* 320
Trichuris vulpis (Nematoda), apparent human case of 197
Tritrichomonas muris (Protozoa), in Utah desert rodents 495
Troglostrongylus wilsoni (Nematoda), from *Lynx rufus rufus* 45
Tropicorbis centimetralis (Mollusca), location of on dry natural habitats 81
Trypanosoma equiperdum (Protozoa), electron microscope observations of 11
Trypanosoma theileri (Protozoa), bovine case of in Illinois 553
TURNER, D. S. (see Hansen, Terhaar and Turner) 122

Urinatrema aspinosum (Trematoda), new species from *Hexagrammos superciliosus* 531

VOGE, MARIETTA Observations on *Shipleya inermis* Fuhrmann, 1908 (Cestoda: Acoleidae) 547
VOGE, MARIETTA Studies on the life history of *Hymenolepis citelli* (McLeod, 1933) (Cestoda: Cyclophyllidea) 485

WARD, HELEN L. A new species of *Centrorhynchus* (Acanthocephala) from the kite, *Milvus migrans*, in Egypt 39
WATRACH, ADOLPH M. (see Levine, Watrach, Kantor and Hardenbrook) 553
WEHR, EVERETT E. *Lophortofilaria californiensis* n. g., n. sp. (Filarioidea, Dipetalonematidae) from California quail, *Lophortyx californicus*, with notes on its microfilaria 42
WEINSTEIN, PAUL P. The *in vitro* cultivation of *Nippostrongylus muris* to the adult stage 215
WELLS, WILLIAM H. A cursory survey of human intestinal parasites in the nomadic people of southern Turkey 535
WELLS, WILLIAM H. New hosts for trematodes of the genus *Heterophyes* in Egypt 287
WILLIAMS, JAMES E. (see Frick, Lin and Williams) 528
WILLIAMS, ROGER W. The biting midges of the genus *Culicoides* found in the Bermuda Islands (Diptera, Heleidae) I. A description of *C. bermudensis* n. sp. with a key to the local fauna 297
WILLIAMS, ROGER W. The biting midges of the genus *Culicoides* in the Bermuda Islands (Diptera, Heleidae). II. A study of their breeding habitats and geographical distribution 300
WOOD, E. M. Tissue damage in salmonids caused by *Halisidota argentata* Packard 544
WRIGHT, WILLARD H. (see Newton and Wright) 246
WYKOFF, DALE E. Ovicidal activity of certain compounds on the embryonated eggs of *Ascaris lumbricoides* 504

YASUTAKE, W. T. (see Wood and Yasutake) 544

INDEX TO AUGUST SUPPLEMENT, 1956

(No. 4, Section 2)

(* refers to page; other figures to abstract number)

Acanthocephala, alkaline glycerophosphatase in 58
Acanthocephala, fermentation of carbohydrates by 59
Acanthocephala, polysaccharide metabolism in 76
Acanthocephalid parasite, cause of fatal infections in marmoset monkeys 93
ALICATA, J. E. Stability of phenothiazine in cane molasses in the control of gastro-intestinal nematodes of cattle 26
Alkaline glycerophosphatase, in Acanthocephala 58
ALLAIN, D. (see Sadun, Allain and Heimlich) 3
ALLEN, R. W. Parasites of the Barbary sheep 25
Amebic dysentery, electrophoretic studies of in dogs 48
American Society of Parasitologists:
Program, 31st annual meeting *1
Author index *9
In memoriam *10
Abstracts *11
Officers for 1956 ..... *43
Former officers *44
Former meeting places *47
Eighth Annual Midwestern Conference of Parasitologists *47
American Society of Parasitologists, history of 80
Amphimerus pseudofelineus (Trematoda), cause of hepatitis in cat 86
Ascariasis, canine, potential zoonosis 6
Ascarid (Nematoda), antigens, agar diffusion studies with 2
Ascarids (Nematoda), dog, treatment of 5
Ascaridia galli (Nematoda), habitat and tissue-phase of 22
Ascaridia galli (Nematoda), treatment of 8
Ascaris lumbricoides (Nematoda), glycogen and trehalose in eggs of 4
Ascocotyle (Trematoda), life-histories of 90
Atrophecoecum (Trematoda), observations on 57
Australorbis glabratus (Mollusca), pathogenic microorganisms in 71, 102
Austrobilharzia variglandis (Trematoda), seasonal infection of mud snails with 53

BABERO, B. B. (see Thomas and Babero) 96
Baerietta diana (Cestoda), early embryology of 98
Barbary sheep, parasites of 25
BAUMAN, P. M. (see Walton, Bauman, Diamond and Herman) 30
BEAMER, P. D. (see Levine, Beamer and Maksic) 86
BECKER, E. R. Apropos oöcyst measurements 41
BECKLUND, W. W. (see Allen, Becklund and Gilmore) 25
BERRY, J. E. Composition of the haptoral armaments and copulatory complex of *Urocleidus ferox* Mueller, 1934 61
Blackhead, pathology of 40
Blood parasites, in reptiles 79
BRADLEY, R. E. (see Levine, Bradley, Clark and Kantor) 14
BRADSHAW, R. C. (see Ward and Bradshaw) 75
BROOKE, M. M. (see Sadun, Norman and Brooke) 20
BULLOCK, W. L. The comparative histochemistry of alkaline glycerophosphatase in the Acanthocephala 58
BYRD, E. E. (see Dunn and Byrd) 55
BYRD, E. E. (see Jordan and Byrd) 57

Caenorhabditis briggsae (Nematoda), axenic cultivation of 21
CAMIN, J. H. (see Hull and Camin) 79
Carbohydrates, *in vitro* fermentation of by tapeworms and Acanthocephala 59
Cestodes, absorption of methionine by 77
Cestodes, in mammals from Grand Canyon National Park 100
Cestodes, polysaccharide metabolism in 76
CHAN, K. F. Methods for securing infective eggs of *Syphacia obvelata* from infected mice 23

Chorioptes bovis (Acarina), effect of lindane on eggs of 78
Chorioptes bovis (Acarina), survival of under *in vitro* conditions 66
CLARK, D. T. (see Levine, Bradley, Clark and Kantor) 14
Coccidiosis, cecal, treatment of 44
Coccidiostatic activity, optimum in 45
COIL, W. H. A comparison of the genera *Gyrocoelia* Fuhrmann, 1899 and *Infula* Burt, 1939 95
COMER, E. O'B. Electrophoretic studies of plasma proteins in dogs with amebic dysentery 48
Cotylurus flabelliformis (Trematoda), development of in second intermediate host 91
CRAM, E. B. "Stepping stones in the history of A. S. P." 80
CROSS, H. F. (see Wharton and Cross) 67
CROSS, J. H., JR. Natural immunity of the white rat to the mouse parasite *Nematospiroides dubius* Baylis, 1926 (Nematoda: Heligmosomidae) 15
CROSS, J. H., JR. Some stages in the life cycle of *Nematospiroides dubius* Baylis, 1926 (Nematoda: Heligmosomidae) 81
Cuterebra (Insecta), mode of infection by 101
Cysticercus bovis (Cestoda), early stages of 99

Dasymetra conferta (Trematoda), miracidium of 55
DAUGHERTY, JACK W. The active absorption of methionine by cestodes 77
DEGIUSTI, D. L. The life history of *Gregarina hyallelae*, a gregarine parasite in *Hyallela azteca* 47
DELIDOW, S. (see DeGiusti and Delidow) 47
DIAMOND, L. S. Susceptibility of domestic animals to infection with *Trypanosoma cruzi* from the raccoon 31, 83
DIAMOND, L. S. (see Walton, Bauman, Diamond and Herman) 30
Digenetic trematode, new, from *Esox m. masquinongy* 84
Dirofilaria tenuis (Nematoda), mosquito transmission of 17
DOSS, M. A. The role of documentation in parasitological research 72, 103
DOUGHERTY, E. C. A synthetic basal complement to liver medium for axenic cultivation of the nematode *Caenorhabditis briggsae* 21
DOUGLAS, L. T. The early embryology of the nematotaeniid cestode, *Baerietta diana* (Helfer, 1948) comb. nov. 98
DUNN, M. C. Developmental stages in the Digenea. IV. The miracidium of *Neorenifer wardi* (Byrd, 1936) and *Dasymetra conferta* Nicoll, 1911 55

Echinococcosis, rodent, studies on 96
Echinococcus granulosus (Cestoda), in Mississippi 75
EHRENFORD, F. A. Canine ascariasis—a potential zoonosis 6
Eimeria acervulina (Protozoa), in chickens 42
Eimeria necatrix (Protozoa), soluble furacin against 43
English sparrow, parasites of in Maryland 94
ETGES, F. J. Studies on the genus *Plagitura* Holl, 1928 (Trematoda: Plagiorchiidae) 85
EUGERE, E. Observations on vaginal trichomoniasis in monkeys 36
EUGERE, E. The inhibitory effects of an ion exchange resin on *Trichomonas vaginalis* .. 37

FAIRBAIRN, D. The distribution and function of glycogen and trehalose in developing eggs of *Ascaris lumbricoides* 4
FISCHTHAL, J. H. A new digenetic trematode from the muskellunge, *Esox m. masquinongy* 85
Filariasis, canine, vector of 27
FRANCHINO, E. M. A method for screening compounds against visceral leishmaniasis in the hamster 34
FRYE, W. E. (see Swartzwelder, Miller, Frye and Lampert) 28
FURMAN, D. P. Observations on the nasal mite genus *Sternostoma* Berlese and Trouessart (Acarina: Rhinonyssidae) 68

GALLICCHIO, V. (see Kruidenier and Gallicchio) 100
GILMORE, R. E. (see Allen, Becklund and Gilmore) 25
GOLDBERG, E. Observations on the cytochrome system in *Trichinella spiralis* 18
GOODCHILD, C. G. Transfaunation of *Schistosomatium douthitti* 54
Gregarina hyallelae (Protozoa), life history of 47
GRUN, J. (see Franchino, Grun and Stauber) 34
GUMBLE, A. R. (see Hewitt and Gumble) 32
Gyrocoelia (Cestoda), comparison of with *Infula* 95

HAMMOND, D. M. Experimental infections of the genital tract of swine and goats with *Tritrichomonas foetus* and *T.* species from the cecum of swine 35
HANSEN, E. L. (see Dougherty and Hansen) 21
HARWOOD, P. D. The optimum in coccidiostatic activity 45
HEADLEE, W. H. Data on the incidence of pinworm infection in Thailand 7
HEDRICK, R. M. The distribution of succinic dehydrogenase activity in *Hymenolepis diminuta* and *Raillietina cesticillus* 74
HEIMLICH, R. (see Sadun, Allain and Heimlich) 3
Helminth eggs, nephelometric method for quantitative determination of 3
HERLICH, H. Observations on age resistance of cattle to parasitic nematodes 13
HERMAN, C. M. (see Walton, Bauman, Diamond and Herman) 30
Heterakis gallinae (Nematoda), treatment of 8
HEWITT, R. I. Antitrypanosomal activity of structural variants of stylomycin® puromycin 32
HEWITT, R. I. (see Wallace, Hewitt, Taylor and Waletzky) 5
HEYNEMAN, D. *In vitro* study of *Hymenolepis nana* rabbit antiserum against eggs, cysticercoids, and adult stages of that parasite 64A
Hookworms (Nematoda), acquired immunity to in dogs 10
HSÜ, H. F. (see Hsü and Hsü) 51
HSÜ, S. Y. L. On the sexual abnormalities in the male *Schistosoma japonicum* 51
HUGGHINS, E. J. An ecological study on *Hysteromorpha triloba* (Trematoda: Strigeida) at Oakwood Lake, South Dakota 49
HUGGHINS, E. J. Further studies on *Hysteromorpha triloba* (Trematoda: Strigeida), and some parasites of a white pelican 50, 92
HULL, R. W. Blood parasites in reptiles 79
HUSSEY, K. L. *Syphacia muris* and its distribution 9
HWANG, J. C. Morphological variations in the embryonic hooks of tapeworms 97
Hymenolepis diminuta (Cestoda), effect of temperature on development of 64
Hymenolepis diminuta (Cestoda), succinic dehydrogenase activity in 74
Hymenolepis nana (Cestoda), rabbit antiserum of 64A
Hysteromorpha triloba (Trematoda), ecological study on 49
Hysteromorpha triloba (Trematoda), further studies on 50, 92

Infula (Cestoda), comparison of with *Gyrocoelia* 95
JONES, C. A. (see Comer, Swartzwelder and Jones) 48
JONES, M. F. (see Weinstein and Jones) 11
JORDAN, H. E. Observations on the genus *Atrophecoccum* Bhalerao, 1940 57

KAGAN, I. G. Agar diffusion studies with ascarid antigens 2
KANTOR, S. (see Levine, Bradley, Clark and Kantor) 14
KARTMAN, L. The vector of canine filariasis 27
KATES, K. C. (see Hwang and Kates) 97
KATZ, F. F. The effect of irradiation on reproduction by the heterogenetic generation of *Strongyloides papillosus* (Wedl, 1856) Ransom, 1911 1
KOSHI, J. H. (see Alicata and Koshi) 26
KRUIDENIER, F. J. A survey of cestodes in mammals from Grand Canyon National Park .. 100
KUNTZ, R. E. (see Self and Kuntz) 69

Laelaptid mites, feeding habits of 67
LAMPERT, R. (see Swartzwelder, Miller, Frye and Lampert) 28
LAURIE, J. S. The *in vitro* fermentation of carbohydrates by two species of tapeworms and one species of Acanthocephala 59
LEIDL, W. (see Hammond and Leidl) 35
LEIGH, W. H. Observations on life-histories of members of the genus *Ascocotyle* Looss (Heterophyidae) 90
LEIGH, W. H. The life-history of *Macroderoides spiniferus* Pearse, 1924, a trematode of the Florida spotted gar, *Lepisosteus platyrhincus* 89
Leishmaniasis, visceral, treatment of 34
LEVINE, N. D. Hepatitis due to *Amphimerus pseudofelineus* in a cat 86
LEVINE, N. D. The relation of semi-weekly pasture rotation to acquisition of gastrointestinal nematodes by sheep 14
Life history of:
Ascocotyle sp. 90
Ascocotyle mcintoshi 90
Ascocotyle tenuicollis 90

Cotylurus flabelliformis 91
Gregarina hyallelae 47
Macroderoides spiniferus 89
Plagiorchis parorchis 56
Litomosoides carinii (Nematoda), immunity to produced by transfer of worms 16
LYNCH, V. (see Eugere, Lynch and Thoms) 36, 37

MACDONALD, E. M. (see Scott and Macdonald) 16
MCGHEE, R. B. The reproductive habits of *Plasmodium cathemerium* in chick and duck embryos 46
MCGUIRE, W. C. (see Morehouse and McGuire) 42
MCINTOSH, A. Early stages of the larvae (*Cysticercus bovis*) of *Taenia saginata* 99
MCNEIL, C. W. Surface-wintering of aquatic snails in central Washington 70
Macroderoides spiniferus (Trematoda), life-history of 89
MACY, R. W. The life cycle of *Plagiorchis parorchis*, n. sp., (Trematoda: Plagiorchiidae) 56
MAIPHOOM, C. (see Headlee, Vajrasthira and Maiphoom) 7
MAKSIC, D. (see Levine, Beamer and Maksic) 85
MALEWITZ, T. C. Studies on the pathology of experimentally produced blackhead in turkeys 40
MILLER, J. H. (see Swartzwelder, Miller, Frye and Lampert) 28
MIZELLE, J. D. (see Berry and Mizelle) 61
MIZELLE, J. D. (see Moran and Mizelle) 22
MOETSCH, J. C. (see Otto, Moetsch and Schock) 33
Monogenetic trematodes, of Gulf of Mexico 62
MORAN, J. F., JR. Notes on the habitat and tissue-phase of *Ascaridia galli* (Schrank, 1788) 22
MOREHOUSE, N. F. Morbidity and mortality among chickens infected with large numbers of the intestinal coccidium, *Eimeria acervulina* Tyzzer, 1929 42

Nassa obsoleta (Mollusca), seasonal variation in infection of with *Austrobilharzia variglandis* 53
Nematodes, age resistance of cattle to 13
Nematodes, and pasture rotation of sheep 14
Nematodes, gastro-intestinal of cattle, control of 26
Nematospiroides dubius (Nematoda), natural immunity of white rat to 15
Nematospiroides dubius (Nematoda), some stages in life cycle of 81
Neorenifer wardi (Trematoda), miracidium of 55
New genera (indicated *) and new species:
**Megadrepanoides solomonensis* (Pentastomida) 69
Plagiorchis parorchis (Trematoda) 56
Nippostrongylus muris (Nematoda), vitamins and protein hydrolysates in growth of 11
NOLF, L. O. (see Goldberg and Nolf) 18
NORMAN, L. (see Sadun and Norman) 19
NORMAN, L. (see Sadun, Norman and Brooke) 20

OGREN, R. E. Embryonic development and morphology of oncospheres of the tapeworm *Oochoristica symmetrica* (Cyclophyllidea: Linstowidae) 63
Oncomelania nosophora (Mollusca), reproduction and growth of 52
Oncomelania quadrasi (Mollusca), reproduction and growth of 52
Oochoristica symmetrica (Cestoda), oncospheres of 63
Oöcyst measurements 41
Ornithobilharzia canaliculata (Trematoda), early developmental stages in 87
OTTO, G. Studies on the activity of bis-quinaldines against experimental trypanosomiasis 33

PAN, C-T. Studies on the biological control of schistosome-bearing snails: A preliminary report on pathogenic microorganisms found in *Australorbis glabratus* 71, 102
Parasites, of Barbary sheep 25
Parasites, of English sparrow in Maryland 94
Parasites, of white pelican 50, 92
Parasitological research, documentation in 72, 103
PASSEY, R. F. (see Fairbairn and Passey) 4
PATZER, M. E. (see Etges and Patzer) 85
PENNER, L. R. Concerning the early developmental stages of *Ornithobilharzia canaliculata* (Rudolphi, 1819) 87
PENNER, L. R. Nostril entry as the mode of infection by the first stage larvae of a rodent *Cuterebra* 101

PENNER, L. R. Studies on the biology of marine acquired avian schistosomiasis 88
Pentastomids, from Africa and British Solomon Islands 69
Pinworm (Nematoda), in Thailand 7
Piperazine adipate, against trichuriasis 28
PISTEY, W. R. Studies on the mosquito transmission of *Dirofilaria tenuis* Chandler, 1942 17
Plagiorchis parorchis (Trematoda), new species, life cycle of 56
Plagitura (Trematoda), studies on 85
Plasmodium cathemerium (Protozoa), reproductive habits of in chick and duck embryos 46
Plasmodium lophurae (Protozoa), electron miscroscope study of 82
POCIUS, F. P. (see Penner and Pocius) 101
Raillietina cesticillus (Cestoda), succinic dehydrogenase activity in 74
READ, C. P. Adaptation to carbohydrate substrates and "direct" utilization of maltose by *Trichomonas* 38
READ, C. P. Carbohydrate quantity and quality: its significance in the biology of tapeworms 65
READ, C. P. Polysaccharide metabolism in cestodes and Acanthocephala 76
ROTHMAN, A. H. (see Read and Rothman) 65, 76
RUBIN, R. (see Diamond and Rubin) 31, 83
RUDZINSKA, M. A. An electron microscope study of *Plasmodium lophurae* 82

SADUN, E. H. A rapid and accurate nephelometric method for the quantitative determination of helminth eggs in clear suspensions 3
SADUN, E. H. The antibody response in rabbits to the intestinal and to the extra-intestinal phases of infections with *Trichinella spiralis* 20
SADUN, E. H. The use of metabolic antigens in the flocculation test for studying the serological response of rabbits to graded infections with *Trichinella spiralis* 19
Schistosoma japonicum (Trematoda), intermediate hosts of 52
Schistosoma japonicum (Trematoda), sexual abnormalities in male 51
Schistosoma japonicum (Trematoda), treatment of by triostam 60
Schistosomatium douthitti (Trematoda), transfaunation of 54
Schistosomiasis, avian, studies on biology of 88
SCHOCK, R. U. (see Otto, Moetsch and Schock) 33
SCOTT, J. A. Immunity to challenging infections of *Litomosoides carinii* produced by transfer of developing worms 16
SCOTT, J. A. (see Cross and Scott) 15, 81
SELF, J. T. Pentastomids from African reptiles and mammals and from reptiles of Florida Island, British Solomon Islands (South Pacific) 69
SHUMARD, R. F. The anthelmintic activity of powdered and liquid parvex against *Ascaridia galli* and *Heterakis gallinae* 8
SHUMARD, R. F. The coccidiostatic activity of soluble furacin against *Eimeria necatrix* .. 43
SINDERMANN, C. J. The ecology of marine dermatitis-producing schistosomes. I. Seasonal variation in infection of mud snails (*Nassa obsoleta*) with larvae of *Austrobilharzia variglandis* 53
Snails (Mollusca), surface wintering of in Washington 70
STABLER, R. M. Furazolidone as a therapeutic agent in pigeon trichomoniasis 39
STAUBER, L. A. (see Franchino, Grun and Stauber) 34
Sternostoma (Acarina), observations on 68
Strongyloides papillosus (Nematoda), effect of irradiation on 1
Strongyloidiasis, acquired resistance to in lambs and kids 24
STUNZ, D. I. (see Harwood, Stunz and Wolfgang) 45
SUGIURA, S. On treatment of schistosomiasis japonicum by means of triostam (sodium antimonyl gluconate) 60
SWARTZWELDER, J. C. Evaluation of the efficacy of piperazine adipate for the treatment of patients with trichuriasis 28
SWARTZWELDER, J. C. (see Comer, Swartzwelder and Jones) 48
SWEATMAN, G. K. Acquired immunity in lambs infected with *Taenia hydatigena* Pallas, 1766 73
SWEATMAN, G. K. Effect of lindane on the hatchability of the eggs of *Chorioptes bovis* (Gerlach) 78
SWEATMAN, G. K. Survival of *Chorioptes bovis* (Gerlach) on epidermic debris and hair from various mammals under *in vitro* conditions 66
Syphacia muris (Nematoda), distribution of 9
Syphacia obvelata (Nematoda), securing infective eggs of 23

Taenia hydatigena (Cestoda), acquired immunity to in lambs 73
Taenia saginata (Cestoda), early stages of larvae of 99

TAKOS, M. J. (see Thomas and Takos) 93
Tapeworms, carboydrate quantity and quality in 65
Tapeworms, fermentation of carbohydrates by 59
Tapeworms, variations in embryonic hooks of 97
TAYLOR, L. H., JR. (see Wallace, Hewitt, Taylor and Waletzky) 5
THOMAS, L. J. Studies on rodent echinococcosis 96
THOMAS, L. J. The pathology and pathogenesis of fatal infections due to an acanthocephalid parasite of marmoset monkeys 93
THOMS, R. K. (see Eugere, Lynch and Thoms) 36, 37
THORSON, R. E. The stimulation of acquired immunity in dogs by injections of extracts of the esophagus of adult hookworms 10
TINER, J. D. Anti-trichostrongyle activity of phenothiazine demonstrated *in vitro* 12
TRAGER, W. (see Rudzinska and Trager) 82
Trichinella spiralis (Nematoda), antibody response in rabbits to 20
Trichinella spiralis (Nematoda), cytochrome system in 18
Trichinella spiralis (Nematoda), serological response of rabbits to 19
Trichomonas (Protozoa), metabolism of 38
Trichomonas vaginalis (Protozoa), inhibitory effect of ion exchange resin on 37
Trichomoniasis, pigeon, therapeutic agent in 39
Trichomoniasis, vaginal, in monkeys 36
Trichostrongles (Nematoda), phenothiazine against 12
Trichuris, treatment of 28
Trichuris vulpis (Nematoda), unusual hatching posture of *in vitro* 29
Triostam, treatment of schistosomiasis japonicum by 60
Tritrichomonas species (Protozoa), in swine and goats 35
Tritrichomonas foetus (Protozoa), in swine and goats 35
Trypanosoma cruzi (Protozoa), in Maryland raccoons 30
Trypanosoma cruzi (Protozoa), susceptibility of domestic animals to 31, 83
Trypanosomiasis, treatment of 32
Trypanosomiasis, treatment of 33
TURNER, J. A. (see Voge and Turner) 64
TURNER, J. H. Further studies on strongyloidiasis in lambs and kids: Development of acquired resistance 24

ULMER, M. J. Development of *Cotylurus flabelliformis* tetracotyles in the second intermediate host (Trematoda: Strigeidae) 91
URICCHIO, W. A. The effect of allyl acetone in the treatment of experimentally induced cecal coccidiosis in chicks 44
Urocleidus ferox (Trematoda), composition of haptoral armament and copulatory complex of 61

VAJRASTHIRA, S. (see Headlee, Vajrasthira and Maiphoom) 7
VOGE, M. The effect of different temperatures on the development of *Hymenolepis diminuta* (Cestoda: Cyclophyllidea) in *Tribolium confusum* 64
WAGNER, A. (see Penner and Wagner) 87
WAGNER, E. D. (see Wong and Wagner) 52
WALETZKY, E. (see Wallace, Hewitt, Taylor and Waletzky) 5
WALLACE, W. S. Effects against dog ascarids of low daily doses of caricide^{R} in the feed .. 5
WALTER, W. M. (see McNeil and Walter) 70
WALTON, B. C. *Trypanosoma cruzi* in raccoons from Maryland 30
WARD, J. W. New records of the occurrence of the hydatid tapeworm, *Echinococcus granulosus*, in central and south Mississippi 75
WEINSTEIN, P. P. The effects of vitamins and protein hydrolysates on the growth *in vitro* of the free-living stages of *Nippostrongylus muris* under axenic conditions 11
WELSH, J. F. (see Heyneman and Welsh) 64A
WHARTON, G. W. Studies on the feeding habits of three species of laelaptid mites 67
WILSON, G. I. Some parasites of the English sparrow in Maryland 94
WOLFGANG, R. W. (see Harwood, Stunz and Wolfgang) 45
WONG, L. Studies on reproduction and growth of *Oncomelania nosophora* and *Oncomelania quadrasi*, intermediate hosts of *Schistosoma japonicum* 52
WOOD, R. A. Monogenetic trematodes of the Gulf of Mexico 62

YUTUC, L. M. On the unusual hatching posture of the embryo of *Trichuris vulpis in vitro* 29